**Cowan Road Middle School**

**Lesson Planning Guide**

**Teacher: Johnson Subject: Technological Systems Grade: 7th**

**Unit Name: Careers Length: 2 weeks Dates**

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| **Step 1: List GPS standards** | **MSENGR-II-3: Students will demonstrate engineering design and problem solving skills.**  a) Define the designed world and its connotations  b) Examine the steps of the Technological Design Process  c) Describe the steps of the Engineering Design Process  d) Compare the Technological Design Process, the Engineering Design Process, and  the Scientific Method  *M7P4 – Students will make connections among mathematical ideas and to other disciplines.*  *S7CS4 – Students will use tools and instruments for observing, measuring, and manipulating equipment and materials in scientific activities.*  *S7CS5 – Students will use the ideas of system, model, change, and scale in exploring scientific and technological matters.*  *ELA7LSV1 – The student participates in student-to-teacher, student-to-student, and group verbal interactions.*  *ELA7LSV2 – The student listens to and views various forms of text and media in order to gather and share information, persuade others, and express and understand ideas.*  *Standard 8 – Students will develop an understanding of the attributes of design.*  *Standard 9 – Students will develop an understanding of engineering design.*  *ENGR-STEM 4 – Students will apply principles of science, technology, engineering, mathematics, interpersonal communication, and teamwork to the solution of technological problems.*  *ENGR-STEM 5 – Students will select and demonstrate techniques, skills, tools, and understanding related to energy and power, bio-related, communication, transportation, manufacturing, and construction technologies.* | | | |
| **Step 2: Determine what students should know and be able to do (Include essential vocabulary)** | **Students will research how jobs will be forecast for the future and how it will impact them.** | | **Students will be able to make a 10 year plan based on their current career interests and life goals** | |
| **Step 3: Identify essential questions** | **What Career Interests you? What are the qualifications of the career? What are Benefits of the career you have chosen? What Degree is required to attain the career?** | | | |
| **Step 4: Design Assessments and criteria (include pre-assessments, formative and summative assessments and performance tasks** | **Pre-test on career terminology.** | **PowerPoint presentation on the chosen career.** | | **Present their PowerPoint.** |
| **Step 5: Design Lessons** | **As students enter the class they will pick up their notebooks from the shelf, and go directly to their assigned seat. When seated they will complete the bell activity while I take roll. Once finished we will briefly discuss the answer to the bell activity then enter into the introduction of our lesson. Once introduced the students will have work time to complete their activity for the day. We will clean up and return their notebooks to the shelf, return to their assigned seats and give an overview of what we accomplished today and a preview of the activities for the next class period.** | | | |
| **Step 6: Select Instructional Resources and Materials** | **PowerPoint instruction sheet and assessment sheet.** | | | |

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| **Week 1** | **MONDAY** | **TUESDAY** | **WEDNESDAY** | **THURSDAY** | **FRIDAY** |
| **Date** |  |  |  |  |  |
| **GPS & Elements** | **. 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| **Essential Question(s)** | **What Career Interests you? What are the qualifications of the career? What are Benefits of the career you have chosen? What Degree is required to attain the career?** | **What Career Interests you? What are the qualifications of the career? What are Benefits of the career you have chosen? What Degree is required to attain the career?** | **What Career Interests you? What are the qualifications of the career? What are Benefits of the career you have chosen? What Degree is required to attain the career?** | **What Career Interests you? What are the qualifications of the career? What are Benefits of the career you have chosen? What Degree is required to attain the career?** | **What Career Interests you? What are the qualifications of the career? What are Benefits of the career you have chosen? What Degree is required to attain the career?** |
| **Bell Activity** | **What is a Career?** | **What does it mean to you to be successful in your career?** | **What is a Benefit?** | **What is your dream job?** | **What is Salary Wages?** |
| **Work Time** | **Show PowerPoint on degrees and potential Career earnings. Discussion.** | **Explain the PowerPoint careers project and let the students begin working on it.** | **Students will work on careers project PowerPoint** | **Students continue to work on careers project PowerPoint** | **Students continue to work on careers PowerPoint project** |
| **Assessment** | **Class Discussion** | **Class Discussion** | **Rubric** | **Rubric** | **Rubric** |
| **Differentiation** | **Group Discussion** | **Individual work with the PowerPoint software and a computer.** | **Individual work with the PowerPoint software and a computer.** | **Individual work with the PowerPoint software and a computer.** | **Individual work with the PowerPoint software and a computer.** |
| **Materials/**  **Resources** | **Career Choices PowerPoint** | **Career Choices PowerPoint** | **Information sheet on PowerPoint and rubric.** | **Information sheet on PowerPoint and rubric.** | **Information sheet on PowerPoint and rubric.** |
| **Closing** | **Review activities of the day and look ahead to next class meeting.** | **Review activities of the day and look ahead to next class meeting.** | **Review activities of the day and look ahead to next class meeting.** | **Review activities of the day and look ahead to next class meeting.** | **Review activities of the day and look ahead to next class meeting.** |

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| **Week 2** | **MONDAY** | **TUESDAY** | **WEDNESDAY** | **THURSDAY** | **FRIDAY** |
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| **Bell Activity** | **What do you think the best career is?** | **What is Retirement?** | **What degree will you need for your dream job?** | **What colleges are you thinking about attending (if any) ?** | **Write down your 5 year plan. Tell me where you want to be, what you want to be doing, and where you want to be living.** |
| **Work Time** | **Students will work on the Career power point project.** | **Students will work on the Career power point project.** | **Students will present their Career PowerPoint** | **Students will present their Career PowerPoint** | **Students will present their Career PowerPoint**  **When finished, all students will create a 10 year plan (high school and after)** |
| **Assessment** | **Rubric** | **Rubric** | **Rubric** | **Rubric** | **Rubric** |
| **Differentiation** | **Individual work with the PowerPoint software and a computer.** | **Individual work with the PowerPoint software and a computer.** | **Present career PowerPoint in your own way.** | **Present career PowerPoint in your own way.** | **Present career PowerPoint in your own way.** |
| **Materials/**  **Resources** | **Information sheet on PowerPoint and rubric.** | **Information sheet on PowerPoint and rubric.** | **Information sheet on PowerPoint and rubric.** | **Information sheet on PowerPoint and rubric.** | **Information sheet on PowerPoint and rubric.** |
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